

**INITIAL STATEMENT OF REASONS
FOR
PROPOSED BUILDING STANDARDS
OF THE
DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
REGARDING THE ADOPTION BY REFERENCE OF THE
2015 EDITION OF THE INTERNATIONAL RESIDENTIAL CODE
WITH PROPOSED AMENDMENTS INTO THE 2016 CALIFORNIA RESIDENTIAL CODE
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 2.5**

(HCD XX/XX)

The Administrative Procedure Act (APA) requires that an Initial Statement of Reasons be available to the public upon request when rulemaking action is being undertaken. The following information required by the APA pertains to this particular rulemaking action:

STATEMENT OF SPECIFIC PURPOSE, PROBLEM, RATIONALE and BENEFITS:

(Government Code Section 11346.2(b)(1) requires a statement of specific purpose of each adoption, amendment, or repeal and the problem the agency intends to address and the rationale for the determination by the agency that each adoption, amendment, or repeal is reasonably necessary to carry out the purpose and address the problem the agency intends to address for which it is proposed. The statement shall enumerate the benefits anticipated from the regulatory action, including the benefits or goals provided in the authorizing statute.)

1) The Public Problem, Administrative Requirement, or Other Circumstance Addressed.

Administrative Requirement: Health and Safety Code Section 17922 directs the Department of Housing and Community Development (HCD) to adopt the most recent edition of the model code, which, in this case, is the International Residential Code published by the International Code Council (ICC).

2) Specific Purpose

The California Building Standards Commission (CBSC) selected the 2015 International Residential Code as the model code to be referenced in Title 24, Part 2.5 of the California Code of Regulations (CCR) for the 2015 Triennial Code Adoption Cycle.

The specific purpose of these regulations is to adopt by reference the 2015 edition of the International Residential Code, with California Amendments, into the 2016 California Residential Code (CRC), Title 24, Part 2.5, of the California Code of Regulations (CCR) for the following programs:

- a) **State Housing Law:** relative to residential occupancies, buildings or structures accessory thereto.
- b) **Employee Housing Act:** relative to any building or structure or outdoors on premises or property in accordance with Health and Safety Code Section 17040.
- c) **Mobilehome Parks or Special Occupancy Parks:** relative to the use of building systems in or on any permanent buildings, accessory buildings, and structures under the ownership and control of the park operator within the park in accordance with Health and Safety Code Section 18300 for mobilehome parks, and Section 18865 for special occupancy parks.
- d) **Factory-Built Housing Law:** relative to residential buildings, dwellings or portions thereof, or building components, or manufactured assemblies in accordance with Health and Safety Code Section 19990.

3) Rationale for Necessity

The proposed building standards update the 2015 IRC and are intended to provide clarity, specificity and direction to the code user and to implement and make specific existing state laws. California amendments also include some amendments brought forward from the 2013 California Residential Code.

If the 2015 International Residential Code becomes adopted in its entirety without being adopted by the CBSC, such automatic adoption would cause considerable confusion because California Amendments, also known as “State Amendments”, are necessary modifications to the model code language to ensure that the 2016 California Residential Code is consistent with state law.

It is necessary to propose the adoption of some sections of the 2015 International Residential Code with amendments to the model code language to incorporate state law provisions and to accommodate unique California conditions.

It is necessary to not propose the adoption of some sections of the 2015 International Residential Code as they would conflict with existing state law provisions and not accommodate unique California conditions.

It is necessary to bring forward previously existing California Amendments. Some existing amendments will be brought forward without any changes and will represent no change in regulatory effect from the 2013 International Residential Code. Other previously existing California Amendments will be changed as explained below.

Specific Proposed Regulatory Actions:

HCD proposes to adopt by reference the 2015 edition of the International Residential Code with amendments into the 2016 California Residential Code. The rationale for each amendment is listed below.

**1. CHAPTER 1
SCOPE AND ADMINISTRATION
DIVISION I
CALIFORNIA ADMINISTRATION**

SECTION 1.1 – GENERAL

Section: 1.1.1 Title

Rationale: HCD proposes to bring forward the above referenced existing California amendment from the 2013 California Residential Code into the 2016 California Residential Code with modification. The modification reflects the adopted model code as the 2015 International Residential Code. There is no intended change in regulatory effect.

Section: 1.1.2 Purpose

Rationale: HCD proposes to bring forward the above referenced existing California amendment from the 2013 California Residential Code into the 2016 California Residential Code without modification.

Section: 1.1.3 Scope

Rationale: HCD proposes to bring forward the above referenced existing California amendment from the 2013 California Residential Code into the 2016 California Residential Code with modification. HCD proposes to add exception # 3. This exception clarifies that detached one- and two-family dwellings, efficiency dwelling units, and townhouses not more than three stories above grade plane in height with a separate means of egress and their accessory structures are permitted to be constructed in accordance with the California Residential Code or the California Building Code. There is no intended change in regulatory effect.

Section: 1.1.3.1 Classification

Rationale: HCD proposes to bring forward the above referenced existing California amendment from the 2013 California Residential Code into the 2016 California Residential Code without modification.

Section: 1.1.3.1.1 Residential Group R

Rationale: HCD proposes to bring forward the above referenced existing California amendment from the 2013 California Residential Code into the 2016 California Residential Code with modification. HCD proposes to change the reference of Section R325 and R326 to Section R335 and R336 respectively. These sections from the 2013 California Residential Code are proposed to be renumbered in coordination with other state agencies to allow for relocation of other California amendments. There is no intended change in regulatory effect.

Sections: 1.1.3.1.2 Utility and Miscellaneous Group U

1.1.3.2 Regulated buildings, structures, and applications

Rationale: HCD proposes to bring forward the above referenced existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code with modification. In Section 1.1.3.1.2 HCD

proposes to change the height of fences from 6 feet to 7 feet to align with the model code. The modification in Section 1.1.3.2 adds "efficiency dwelling unit" to the list of applicable buildings regulated by this code. This amendment is consistent with the California Building Code. The proposed amendment provides clarity and consistency to the code users and enforcing agencies. There is no intended change in regulatory effect.

- Sections:**
- 1.1.4 Appendices**
 - 1.1.5 Referenced codes**
 - 1.1.6 Nonbuilding standards, orders and regulations**
 - 1.1.7 Order of precedence and use**
 - 1.1.7.1 Differences**
 - 1.1.7.2 Specific provisions**
 - 1.1.7.3 Conflicts**
 - 1.1.7.3.1 Detached one- and two-family dwellings**

Rationale: HCD proposes to bring forward the above referenced existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code with modification. HCD proposes to add "efficiency dwelling units" to the list of what can be built to the California Residential Code and are not required to comply with the California Building Code. HCD also proposes nonsubstantive editorial changes to the reference to the California Building Code. This amendment is consistent with the California Building Code. There is no intended change in regulatory effect.

Section: 1.1.8 City, county, or city and county amendments, additions or deletions

Rationale: HCD proposes to bring forward the above referenced existing California amendment from the 2013 California Residential Code into the 2016 California Residential Code without modification.

Section: 1.1.8.1 Findings and filings

Rationale: HCD proposes to bring forward the above referenced existing California amendment from the 2013 California Residential Code into the 2016 California Residential Code with a modification to correct the address of the Department of Housing and Community Development. There is no intended change in regulatory effect.

Section: 1.1.9 Effective date of this code

Rationale: HCD proposes to bring forward the above referenced existing California amendment from the 2013 California Residential Code into the 2016 California Residential Code without modification.

Section: 1.1.10 Availability of codes

Rationale: HCD proposes to bring forward the above referenced existing California amendment from the 2013 California Residential Code into the 2016 California Residential Code with modification. HCD proposes to make an editorial correction to Health and Safety Code Section 18942 (d) (1) and (2). The reference should be to Health and Safety Code Section 18942 (e) (1) and (2). This change is necessary due to legislative changes to Health and Safety Code Section 18942. There is no intended change in regulatory effect.

Section: 1.1.11 Format

Rationale: HCD proposes to bring forward the above referenced existing California amendment from the 2013 California Residential Code into the 2016 California Residential Code without modification.

Section: 1.1.12 Validity

Rationale: HCD proposes to bring forward the above referenced existing California amendment from the 2013 California Residential Code into the 2016 California Residential Code without modification.

SECTION 1.8 - DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT (HCD)

Section: 1.8.1 Purpose

Rationale: HCD proposes to bring forward the above referenced existing California amendment from the 2013 California Residential Code into the 2016 California Residential Code without modification.

Section: 1.8.2 AUTHORITY AND ABBREVIATIONS

- Sections:**
- 1.8.2.1 General**
 - 1.8.2.1.1 Housing construction**
 - 1.8.2.1.2 Housing accessibility**
 - 1.8.2.1.3 Permanent buildings in mobilehome parks and special occupancy parks**

Rationale: HCD proposes to bring forward the above referenced existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code with a modification to change “apartment houses” to “apartments” to be consistent with the California Building Code. The term “apartment house” was defined and used last in the 2001 CBC, when the Uniform Building Code was used as the model building code in California. The term “apartment house” has not been used (except in Chapter 1) in the California Building Code since 2007, when the International Building Code became the new model code in California. The term currently used in the CBC is “apartment” or “apartments.” HCD additionally proposes to change references to the location of defined terms from “Chapter 11A” to now refer to “Chapter 2” as the model code format has changed and now all defined terms are located in Chapter 2. HCD is also proposing editorial modifications related to capitalization of defined terms and the abbreviation (CBC) of the California Building Code. There is no intended change in regulatory effect.

Section: 1.8.3 - LOCAL ENFORCING AGENCY

- Sections:**
- 1.8.3.1 Duties and powers**
 - 1.8.3.2 Laws, rules and regulations**
 - 1.8.3.2.1 State Housing Law**
 - 1.8.3.2.2 Mobilehome Parks Act**
 - 1.8.3.2.3 Special Occupancy Parks Act**
 - 1.8.3.2.4 Employee Housing Act**
 - 1.8.3.2.5 Factory-Built Housing Law**

Rationale: HCD proposes to bring forward the above referenced existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code with a modification to change “apartment houses” to “apartments” and add “condominiums” to the list to be consistent with the California Building Code. The term “apartment house” is not used in the International Building Code or the California Building Code. The terms currently used are “apartment”, “apartments” and/or “condominiums”. There is no intended change in regulatory effect.

Section: 1.8.4 - PERMITS, FEES, APPLICATIONS AND INSPECTIONS

- Sections:**
- 1.8.4.1 Permits**
 - 1.8.4.2 Fees**
 - 1.8.4.3 Plan review and time limitations**
 - 1.8.4.3.1 Retention of plans**
 - 1.8.4.4 Inspections**

Rationale: HCD proposes to bring forward the above referenced existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code with a modification. HCD proposes to change the reference to “Section 1351” to now read “Section 4100”. This modification is necessary due to changes and renumbering in the Civil Code. There is no intended change in regulatory effect.

Section: 1.8.5 - RIGHT OF ENTRY FOR ENFORCEMENT

Section: 1.8.5.1 General

Rationale: HCD proposes to bring forward the above referenced existing California amendment from the 2013 California Residential Code into the 2016 California Residential Code without modification.

Section: 1.8.6 - LOCAL MODIFICATION BY ORDINANCE OR REGULATION

- Sections:**
- 1.8.6.1 General**
 - 1.8.6.2 Findings, filings, and rejections of local modifications**

Rationale: HCD proposes to bring forward the above referenced existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code without modification.

Section: 1.8.7 - ALTERNATE MATERIALS, DESIGNS, TESTS AND METHODS OF CONSTRUCTION

- Sections:**
- 1.8.7.1 General**
 - 1.8.7.2 Local building departments**
 - 1.8.7.2.1 Approval of alternates**
 - 1.8.7.3 Department of Housing and Community Development**

Rationale: HCD proposes to bring forward the above referenced existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code with modification. HCD proposes to amend the term “apartment house” to “apartments” and add “condominiums” to the list to be consistent with the California Building Code. HCD also proposes to change the types of dwellings listed from singular to plural and also proposes editorial modifications related to capitalization of defined terms. HCD additionally proposes to change references to the location of defined terms from “Chapter 11A” to now refer to “Chapter 2” as the model code format has changed, and now all defined terms are located in Chapter 2. HCD is also proposing editorial modifications related to capitalization of defined terms and the abbreviation (CBC) of the California Building Code. There is no intended change in regulatory effect.

Section: 1.8.8 - APPEALS BOARD

Sections: 1.8.8.1 General
1.8.8.2 Definitions
1.8.8.3 Appeals

Rationale: HCD proposes to bring forward the above referenced existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code with modification. HCD proposes to add “construction” to the text which addresses the authority of local jurisdictions to hear appeals. Health and Safety Code Section 17920.6 *Local Appeals Board* includes the building (construction) requirements as a matter in which the appeals board may hear and render decisions. There is no intended change in regulatory effect.

Section: 1.8.9 - UNSAFE BUILDINGS OR STRUCTURES

Sections: 1.8.9.1 Authority to enforce
1.8.9.2 Actions and proceedings

Rationale: HCD proposes to bring forward the above referenced existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code with modification. Section 1.8.9.1 Item # 5 contains a publishing error. Number 5 should read “Section 1.8.3.2.5”. The number “3” was inadvertently omitted by the publisher in the 2013 California Residential Code. There is no intended change in regulatory effect.

Section: 1.8.10 - OTHER BUILDING REGULATIONS

Sections: 1.8.10.1 Existing structures
1.8.10.2 Moved structures

Rationale: HCD proposes to bring forward the above referenced existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code with modification. HCD proposes to amend the references to Chapter 34 of the California Building Code (CBC), to the California Existing Building Code (CEBC). The regulations for existing buildings located in Chapter 34 of the 2012 International Building Code (IBC) have been relocated to the 2015 International Existing Building Code (IEBC). Due to these changes in the model code, HCD proposes in separate action to relocate amendments from Chapter 34 of the 2013 CBC into the 2016 CEBC. There is no intended change in regulatory effect.

**2. CHAPTER 1
DIVISION II
ADMINISTRATION**

Division II is not adopted by the Department of Housing and Community Development except where specifically indicated.

Rationale: HCD proposes to continue adoption of Chapter 2 of the International Residential Code with amendments. Division II has been added to the existing model code section. As amended, Chapter 2, Division II is consistent with the format currently proposed in the other parts of the California Building Standards Code.

SECTION R105 PERMITS

Section: R105.2 Work exempt from permit

Rationale: HCD proposes to adopt the above referenced section from the 2015 International Residential Code and bring forward the existing California amendment from the 2013 California Residential Code into the 2016 California Residential Code without modification. The provision of Item 1, “Work exempt from permit,” under the 2015 IRC,

**Sections: R109.1.5.1 Fire-resistance-rated construction inspection
R109.1.5.2 Special Inspections**

Rationale: HCD proposes to bring forward the above referenced existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code without modification. There is no intended change in regulatory effect from the 2013 CRC.

**Sections: R109.1.6 Final inspection
R109.1.6.1 Elevation documentation**

Rationale: HCD proposes to adopt the above referenced sections from the 2015 International Residential Code into the 2016 California Residential Code without amendment. The above sections are referenced in other adopted sections of the IRC, used as part of the local agency permitting and inspection process, and are also required for meeting mandatory measures in the California Green Building Standards Code, Chapter 4.

Section: R109.1.6.2 Operation and maintenance manual

Rationale: HCD proposes to bring forward the above referenced existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code without modification. During the 2013 Code Adoption Cycle pointers to mandatory CALGreen requirements were proposed for inclusion into the code to enhance user convenience and familiarity. This pointer may also serve as a potential location for the complete CALGreen requirement in the event that HCD makes the decision in a future rulemaking to discontinue Part 11, CALGreen and incorporate its requirements into other parts of Title 24, the California Building Standards Code.

**3. CHAPTER 2
DEFINITIONS**

HCD proposes to adopt Chapter 2 from the 2015 International Residential Code with new amendments, and bring forward California existing amendments from the 2013 California Residential Code into the 2016 California Residential Code with modification, as indicated below:

SECTION R201 GENERAL

Section: R201.3 Terms defined in other codes

Rationale: HCD proposes to adopt the above referenced section and bring forward existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code without modification. The California amendment to Section R201.3 deletes references to the International Codes that California does not adopt.

SECTION R202 DEFINITIONS

(Existing California amendments brought forward from the 2013 California Residential Code for adoption into the 2016 California Residential Code and new California amendments proposed for adoption into the 2016 California Residential Code):

ALTERATION

APPROVED

APPROVED AGENCY

APPROVED LISTING AGENCY

APPROVED TESTING AGENCY

BUILDING

Rationale: HCD proposes to bring forward the above referenced definitions from the 2013 California Residential Code into the 2016 California Residential Code without modification.

CLIMATE ZONES

Rationale: HCD proposes to adopt this new definition as a California amendment into the 2016 California Residential Code. The definition is based on the definition of Climate Zones in the California Energy Code and is proposed for adoption to differentiate between the model code climate zones (1-8) referenced in the International Codes and the 16 climate zones unique to California. There is no intended change in regulatory effect.

DEPARTMENT

Rationale: HCD proposes to bring forward the above referenced definition from the 2013 California Residential Code into the 2016 California Residential Code without modification.

DUCT SYSTEM

Rationale: HCD proposes to amend the model code definition from the 2015 International Residential Code and adopt this definition as a California amendment into the 2016 California Residential Code. The amended definition is based on the definition of Duct System in the California Energy Code. This amended definition is necessary due to the references in the model code definition to sections and chapters not adopted by HCD. There is no intended change in regulatory effect.

EFFICIENCY DWELLING UNIT ENFORCEMENT ENFORCING AGENCY ENFORCEMENT AGENCY FAMILY

Rationale: HCD proposes to bring forward the above referenced definitions from the 2013 California Residential Code into the 2016 California Residential Code without modification.

FENESTRATION

Rationale: HCD proposes to bring forward the above referenced definition from the 2013 California Residential Code into the 2016 California Residential Code with modification. The proposed modification deletes unnecessary text for consistency with other California codes. There is no intended change in regulatory effect.

GUARD OR GUARDRAIL INSULATING SHEATHING LABELED LIMITED-DENSITY OWNER-BUILT RURAL DWELLINGS LISTED

Rationale: HCD proposes to bring forward the above referenced definitions from the 2013 California Residential Code into the 2016 California Residential Code without modification.

LISTING AGENCY

Rationale: HCD proposes to correct the incorrect spelling of “Listing Agency” as it was inadvertently published as “Listed Agency” in the 2013 CRC. HCD also proposes to add a “HCD 1 and 2” banner to this existing California amendment for consistency with the California Building Code. There is no intended change in regulatory effect from the 2013 California Residential Code.

LODGING HOUSE

Rationale: HCD proposes to add clarifying language to this existing California amendment which specifies that lodging houses are buildings or portions of buildings with not more than five (5) guestrooms and the lodging house is occupied by the proprietor of the lodging house. HCD proposes this modification for consistency with the California Building Code which also contains this proposed modification to an existing amendment for clarification. There is no intended change in regulatory effect from the 2013 California Residential Code.

MASONRY UNIT PASSIVE SOLAR ENERGY COLLECTOR REPAIR RISER SUNROOM TESTING AGENCY VENTILATION

Rationale: HCD proposes to bring forward the above referenced definitions from the 2013 California Residential Code into the 2016 California Residential Code without modification.

4. CHAPTER 2 DEFINITIONS

SECTION R202 DEFINITIONS (Non-adopted)

HCD proposes to delete and not adopt the following definitions from the 2015 International Residential Code as indicated below.

Note: The following terms will not be printed in the 2016 California Residential Code unless adopted by the Office of the State Fire Marshal.

ACCESSIBLE
ACCESSIBLE, READILY
ACCESSORY STRUCTURE
AIR ADMITTANCE VALVE
AIR BARRIER
AIR BREAK (DRAINAGE SYSTEM)
AIR CIRCULATION, FORCED
AIR-CONDITIONING SYSTEM
AIR GAP, DRAINAGE SYSTEM
AIR GAP, WATER-DISTRIBUTION SYSTEM
ANTISIPHON
APPLIANCE
BACKFLOW, DRAINAGE
BACKFLOW PREVENTER
BACKFLOW PREVENTER, REDUCED-PRESSURE ZONE TYPE
BACKFLOW, WATER DISTRIBUTION
BACKPRESSURE
BACKPRESSURE, LOW HEAD
BACKSIPHONAGE
BACKWATER VALVE
BATHROOM GROUP
BEND
BOILER
BRANCH
BRANCH, FIXTURE
BRANCH, HORIZONTAL
BRANCH INTERVAL
BRANCH, MAIN
BRANCH, VENT
BTU/H
BUILDING DRAIN
BUILDING SEWER
CHIMNEY CONNECTOR
CHIMNEY TYPES
CIRCUIT VENT
CIRCULATING HOT WATER SYSTEM
CLEANOUT
CLIMATE ZONE
COLLECTION PIPE
COMBINATION WASTE AND VENT SYSTEM
COMMERCIAL BUILDING
COMMON VENT
CONDENSING APPLIANCE
CONDITIONED AREA
CONTAMINATION
CONTINUOUS WASTE
CONTROL, LIMIT
CONTROL, PRIMARY SAFETY
CONVECTOR
CROSS CONNECTION
CURTAIN WALL
DAMPER, VOLUME
DEMAND RECIRCULATION WATER SYSTEM
DEVELOPED LENGTH
DILUTION AIR
DIRECT SYSTEM
DIRECT-VENT APPLIANCE

DRAFT
 Induced draft
 Natural draft
DRAFT HOOD
DRAFT REGULATOR
DRAIN
DRAIN-BACK SYSTEM
DRAINAGE FITTING
DWV
EFFECTIVE OPENING
ELBOW
EQUIPMENT
EQUIVALENT LENGTH
ERI REFERENCE DESIGN
ESSENTIALLY NONTOXIC TRANSFER FLUIDS
ESSENTIALLY TOXIC TRANSFER FLUIDS
EVAPORATIVE COOLER
EXCESS AIR
EXHAUST HOOD, FULL OPENING
EXISTING INSTALLATIONS
FACTORY-MADE AIR DUCT
FIXTURE BRANCH, DRAINAGE
FIXTURE BRANCH, WATER-SUPPLY
FIXTURE DRAIN
FIXTURE FITTING
 Supply fitting
 Waste fitting
FIXTURE GROUP, MAIN
FIXTURE SUPPLY
FIXTURE UNIT, DRAINAGE (d.f.u.)
FIXTURE UNIT, WATER-SUPPLY (w.s.f.u.)
FLEXIBLE AIR CONNECTOR
FLOOD-LEVEL RIM
FLOOR DRAIN
FLOOR FURNACE
FLOW PRESSURE
FLUE, APPLIANCE
FLUE COLLAR
FLUSH VALVE
FLUSHOMETER TANK
FLUSHOMETER VALVE
FUEL-PIPING SYSTEM
FULLWAY VALVE
FURNACE
GRADE, PIPING
GRAY WATER
GRIDDED WATER DISTRIBUTION SYSTEM
GROUND-SOURCE HEAT PUMP LOOP SYSTEM
HAZARDOUS LOCATION
HEAT PUMP
HEATING DEGREE DAYS (HDD)
HIGH-EFFICACY LAMPS
HIGH-TEMPERATURE (H.T.) CHIMNEY
HISTORIC BUILDINGS
HORIZONTAL BRANCH, DRAINAGE
HORIZONTAL PIPE
HOT WATER
HYDROGEN GENERATING APPLIANCE
IGNITION SOURCE
INDIRECT SYSTEM
INDIRECT WASTE PIPE

INDIVIDUAL SEWAGE DISPOSAL SYSTEM
INDIVIDUAL VENT
INDIVIDUAL WATER SUPPLY
INSULATED SIDING
MACERATING TOILET SYSTEMS
MAIN
MAIN SEWER
MANIFOLD WATER DISTRIBUTION SYSTEMS
MANUFACTURED HOME
MASS WALL
MECHANICAL DRAFT SYSTEM
 Forced-draft venting system
 Induced draft venting system
 Power venting system
MECHANICAL EXHAUST SYSTEM
MECHANICAL JOINT
MECHANICAL SYSTEM
NATURAL DRAFT SYSTEM
OFFSET
ON-SITE NONPOTABLE WATER REUSE SYSTEMS
PITCH
PLUMBING
PLUMBING APPURTENANCE
POLLUTION
PORTABLE-FUEL-CELL APPLIANCE
POTABLE WATER
PRESSURE-RELIEF VALVE
PUBLIC SEWER
PUBLIC WATER MAIN
PURGE
QUICK-CLOSING VALVE
R-VALUE, THERMAL RESISTANCE
RATED DESIGN
RECEPTOR
RECLAIMED WATER
REFLECTIVE DUCT INSULATION
REFRIGERANT
REFRIGERANT COMPRESSOR
REFRIGERATING SYSTEM
RELIEF VALVE, VACUUM
RETURN AIR
ROOM HEATER
ROUGH-IN
SANITARY SEWER
SEPTIC TANK
SEWAGE
SEWAGE PUMP
SKYLIGHT
SKYLIGHT AND SLOPED GLAZING
SKYLIGHT, UNIT
SLEEPING UNIT
SLIP JOINT
SLOPE
SOIL STACK OR PIPE
SOLAR HEAT GAIN COEFFICIENT (SHGC)
STACK
STACK VENT
STANDARD TRUSS
STATIONARY FUEL CELL POWER PLANT
STORM SEWER, DRAIN
SUBSOIL DRAIN

SUMP
 SUMP PUMP
 SUPPLY AIR
 SWEEP
 TEMPERATURE- AND PRESSURE-RELIEF (T AND P) VALVE
 TEMPERATURE-RELIEF VALVE
 THERMAL RESISTANCE, R-VALUE
 THERMAL TRANSMITTANCE, U-FACTOR
 THIRD-PARTY CERTIFICATION AGENCY
 THIRD PARTY CERTIFIED
 THIRD-PARTY TESTED
 TRAP
 TRAP ARM
 TRAP PRIMER
 TRAP SEAL
 U-FACTOR, THERMAL TRANSMITTANCE
 VACUUM BREAKERS
 VENT COLLAR
 VENT CONNECTOR
 VENT DAMPER DEVICE, AUTOMATIC
 VENT GASES
 VENT STACK
 VENT SYSTEM
 VERTICAL PIPE
 WASTE
 WASTE PIPE OR STACK
 WASTE RECEPTOR
 WATER-DISTRIBUTION SYSTEM
 WATER HEATER
 WATER MAIN
 WATER OUTLET
 WATER-SERVICE PIPE
 WATER SUPPLY SYSTEM
 WET VENT
 WHOLE-HOUSE MECHANICAL VENTILATION SYSTEM
 WINDBORNE DEBRIS REGION

5. CHAPTER 3
 BUILDING PLANNING

2013 CRC SECTION R315 CARBON MONOXIDE ALARMS

Sections:	R315.1	Carbon monoxide alarms in new construction
	R315.1.1	Carbon monoxide detection systems
	R315.1.2	Power supply
	R315.1.3	Interconnection
	R315.1.4	Alarm requirements
	R315.1.5	Multiple-purpose alarms
	R315.2	Carbon monoxide alarms in existing dwelling units and sleeping units
	R315.2.1	Carbon monoxide detection systems
	R315.2.2	Existing dwellings or sleeping units requiring a permit
	R315.2.3	Existing dwellings or sleeping units not requiring a permit (no construction taking place)
	R315.2.3.1	Carbon monoxide alarms on or after July 1, 2011
	R315.2.3.2	Carbon monoxide alarms on or after January 1, 2013
	R315.2.4	Power supply
	R315.2.5	Interconnection
	R315.2.6	Alarm requirements

Rationale: HCD proposes to repeal and not bring forward the existing California amendments of the above referenced sections from the 2013 California Residential Code into the 2016 California Residential Code. The above

sections were adopted by HCD to replace model code language and reflect provisions for carbon monoxide devices as adopted in an emergency rulemaking and approved by the California Building Standards Commission in July 2011. This adoption intended to provide consistency for enforcing agencies and code users that implemented the emergency regulations, which became effective in July 2011. HCD now proposes in separate action during this 2015 Triennial Code Adoption Cycle to adopt the model code language from the 2015 International Residential Code Section R315 with California amendments into the 2016 California Residential Code. There is no intended change in regulatory effect from the 2013 provisions.

California Health and Safety Code “The Carbon Monoxide Poison Prevention Act of 2010”, as enacted by Senate Bill 183 (Chapter 19, Statutes of 2010), required all detached single family dwellings with fuel burning appliances or an attached garage to have carbon monoxide alarms installed prior to July 1, 2011, and all other dwelling units by January 1, 2013. State law allows these devices to be battery operated or plug-in with battery back-up, however, also states that under certain conditions the devices shall comply with installation requirements for new construction contained in the California Building Code and the California Residential Code, which require these devices to be hardwired and interconnected. The emergency regulations adopted in July 2011 were for the purposes of addressing carbon monoxide device requirements for both new and existing residential structures and to provide guidance on conditions under which battery operated or plug-in devices were appropriate and also conditions under which interconnection of devices would not be required. In part, these regulations were patterned after requirements for smoke alarms in residential structures. The regulations also addressed listing requirements, installation locations and reference standards for carbon monoxide alarms and detectors. These amendments, as carried forward into the 2013 CRC, intended to clarify existing statute, reduce economic hardship and ensure internal consistency and compliance with California building standards.

For additional history on these amendments, see the Initial Statement of Reasons and Final Statement of Reasons rulemaking documents for the 2010 California Residential Code and 2013 California Residential Code. These documents are available on HCD’s website.

**6. CHAPTER 3
BUILDING PLANNING**

SECTION:R300 SITE DRAINAGE

**Sections: R300.1 Storm water drainage and retention during construction
R300.2 Grading and paving**

Rationale: HCD proposes to bring forward the above referenced existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code without modification. During the 2013 Code Adoption Cycle pointers to mandatory CALGreen requirements were proposed for inclusion into the code to enhance user convenience and familiarity. These pointers may also serve as potential locations for the complete CALGreen requirement in the event that HCD makes the decision in a future rulemaking to discontinue Part 11, CALGreen and incorporate its requirements into other parts of Title 24, the California Building Standards Code.

SECTION R301 DESIGN CRITERIA

Section: R301.1.1 Alternative provisions

Rationale: HCD proposes to bring forward the above referenced existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code without modification. HCD proposes to bring forward the existing California amendment which deletes “International” and replaces it with “California” to provide the code user a correct reference to the California Building Code.

Section: R301.1.1.1 Alternative provisions for limited-density owner-built rural dwellings

Rationale: HCD proposes to bring forward the above referenced California amendment from the 2013 California Residential Code into the 2016 California Residential Code without modification. The HCD amendment provides five criteria demonstrating instances where the local enforcing agency must allow or can consider alternative requirements for limited-density owner-built rural dwellings. There is no intended change in regulatory effect.

Section: R301.1.3 Engineered design

Rationale: HCD proposes to bring forward the above referenced existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code without modification. The HCD amendment deletes “International” and replaces it with “California” to provide the code user a correct reference to the California Building Code. There is no intended change in regulatory effect.

**Sections: R301.1.3.1 California licensed architect or engineer
R301.1.3.2 Woodframe structures greater than two-stories
R301.1.3.3 Structures other than woodframe**

Rationale: HCD proposes to bring forward the above referenced existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code without modification. Existing statute only exempts (in specific applications) woodframe construction of two stories or less from professional design requirements. The HCD amendment provides the code user with necessary information about additional California requirements and also directs the code user to the applicable law located in the Business and Professions Code. The HCD amendment is intended to provide clarity and consistency to the code user for application and enforcement. There is no intended change in regulatory effect.

TABLE: R301.2(1) CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA

Rationale: HCD proposes to bring forward the above referenced existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code without modification. HCD proposes to bring forward the existing California amendment from Table R301.2(1) of the 2013 California Residential Code into the 2016 California Residential Code. The HCD amendment removes model code language from footnote “e” which directs the code user to Appendix D of the International Plumbing Code (IPC) which is not proposed for adoption by HCD. HCD’s amendment provides that the building official shall be responsible for making any determination of local temperatures required by footnote “e”. There is no intended change in regulatory effect.

Section: R301.2.1.1 Wind limitations and wind design required

Rationale: HCD proposes to bring forward the above referenced existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code without modification. HCD proposes to bring forward the existing California amendment which deletes “International” in three places and replaces the term with “California” to provide the code user a correct reference to the California Building Code. There is no intended change in regulatory effect.

Section: R301.2.2.1.1 Alternate determination of seismic design category

Rationale: HCD proposes to bring forward the above referenced existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code without modification. HCD proposes to bring forward the existing California amendment which deletes “International” in three places and replaces the term with “California” to provide the code user a correct reference to the California Building Code. There is no intended change in regulatory effect.

Section: R301.2.2.1.2 Alternative determination of Seismic Design Category E

Rationale: HCD proposes to bring forward the above referenced existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code without modification. HCD proposes to bring forward the existing California amendment which deletes “International” in two places and replaces the term with “California” to provide the code user a correct reference to the California Building Code. There is no intended change in regulatory effect.

Section: R301.2.2.3.7 Anchorage of water heaters

Rationale: HCD proposes to bring forward the above referenced existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code without modification. HCD proposes to bring forward the existing California amendment which deletes reference to Section “M1307.2”. IRC mechanical and plumbing provisions are not adopted by HCD. This amendment is necessary to provide the correct reference to the California Plumbing Code. There is no intended change in regulatory effect.

Section: R301.2.2.4 Seismic Design Category E

Rationale: HCD proposes to bring forward the above referenced existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code without modification. The HCD amendment deletes “International” and replaces it with “California” to provide the code user a correct reference to the California Building Code. There is no intended change in regulatory effect.

Section: R301.3 Story height

Rationale: HCD proposes to bring forward the above referenced existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code without modification. HCD proposes to delete “International” in Item 5 and replace the term with “California” to provide the code user a correct reference to the California Building Code.

SECTION R302 FIRE-RESISTANT CONSTRUCTION

Section: R302.1 Exterior walls

Rationale: HCD proposes to bring forward the above referenced existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code without modification. HCD proposes to bring forward the existing California amendment which deletes reference to Section "P2904". The IRC mechanical and plumbing provisions are not adopted by HCD. This amendment is necessary to provide the correct reference to the California Residential Code Section R313, which is a California amendment adopted by the Office of the State Fire Marshal.

Section: R302.2 Townhouses

Rationale: HCD proposes to bring forward the above referenced existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code with modification. HCD proposes to bring forward the existing California amendment which strikes reference to IRC electrical chapters (Chapters 33 through 43) since IRC electrical chapters are not adopted by HCD. HCD proposes a new amendment to delete references to Section "P2904" and replace the term with "R313". The IRC mechanical and plumbing provisions are not adopted by HCD. This amendment is necessary to provide the correct reference to the California Residential Code Section R313, which is a California amendment adopted by the Office of the State Fire Marshal.

Section: R302.5.1 Opening protection

Rationale: HCD proposes to bring forward the above referenced existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code without modification. The HCD amendment adds the requirement for doors located in openings between the garage and dwelling-unit to be equipped with self-closing and self-latching devices. Although the IRC requires these doors to be self-closing, it does not specify that the doors also be "self-latching". There is no intended change in regulatory effect.

Section: R302.6 Dwelling-garage fire separation

Rationale: HCD proposes to bring forward the above referenced existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code without modification. HCD proposes to bring forward the existing California amendment which exempts separation between a dwelling unit and carport as specified. There is no intended change in regulatory effect.

Section: R302.14 (formerly R302.13) Combustible insulation clearance

Rationale: HCD proposes to bring forward the above referenced existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code without modification. The HCD amendment deletes the term "thermal," in "building thermal envelope" and the reference to IRC Section N1102.4.4. Chapter 11, "Energy," is not adopted by HCD. The HCD amendment is consistent with the definition in the California Energy Code, Title 24, Part 6, therefore, the code user is provided a correct reference to the California Energy Code for minimum requirements regarding clearance to recessed luminaires. This section was formerly Section R302.13 in the 2013 California Residential Code. There is no intended change in regulatory effect.

SECTION R303 LIGHT, VENTILATION AND HEATING

Section: R303.1 Habitable rooms

Rationale: HCD proposes to bring forward the above referenced existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code without modification. The amendment deletes the reference to "Section M1507". The IRC mechanical provisions are not adopted by HCD and this amendment provides the correct reference to the California Mechanical Code. HCD also proposes to continue the adoption of an amendment which adds Exceptions 4 and 5 in recognition of the provisions in Health and Safety Code Section 17959.3 to encourage passive solar energy design, and HCD adoption of related building standards. There is no intended change in regulatory effect.

Section: R303.3 Bathrooms

Rationale: HCD proposes to bring forward the above referenced existing California amendment from the 2013 California Residential Code into the 2016 California Residential Code without modification. The HCD amendment provides the required local exhaust rates for bathrooms and private toilet rooms as required in the 2016 California Mechanical Code and deletes reference to Section M1507. The IRC mechanical provisions are not adopted by HCD. There is no intended change in regulatory effect.

Section: R303.3.1 Bathroom exhaust fans

Rationale: HCD proposes to bring forward the above referenced existing California amendment from the 2013 California Residential Code into the 2016 California Residential Code without modification. During the 2013 Code Adoption Cycle pointers to mandatory CALGreen requirements were proposed for inclusion into the code to enhance user convenience and familiarity. These pointers may also serve as potential locations for the complete CALGreen requirement in the event that HCD makes the decision in a future rulemaking to discontinue Part 11, CALGreen and incorporate its requirements into other parts of Title 24, the California Building Standards Code. There is no intended change in regulatory effect from the 2013 CRC. There is no intended change in regulatory effect.

Section: R303.4 Ventilation

Rationale: HCD proposes to bring forward the above referenced existing California amendment from the 2013 California Residential Code into the 2016 California Residential Code without modification. The amendment directs the code user to the California Mechanical Code for ventilation air rates. There is no intended change in regulatory effect.

Section: R303.8.1.1 Passive solar energy collectors

Rationale: HCD proposes to bring forward the above referenced existing California amendment from the 2013 California Residential Code into the 2016 California Residential Code with modification. The amendment is a pointer to the California Energy Code for requirements for passive solar energy collectors. The proposed modification deletes unnecessary text for consistency with other California codes. There is no intended change in regulatory effect.

Section: R303.9 Required heating

Rationale: HCD proposes to bring forward the above referenced existing California amendment from the 2013 California Residential Code into the 2016 California Residential Code without modification. The amendment added a note to direct the code user to Section R301.1.1.1 where California amended language for limited-density owner-built rural dwellings has been placed. There is no intended change in regulatory effect.

SECTION R304 MINIMUM ROOM AREAS

Section: R304.2 (formerly R304.3) Minimum dimensions

Rationale: HCD proposes to bring forward the above referenced existing California amendment from the 2013 California Residential Code into the 2016 California Residential Code without modification. The amendment added Exception 2 addressing limited-density owner-built rural dwellings. Pointers have been placed within the CRC directing code users to applicable code provisions in Section R301.1.1.1. There is no intended change in regulatory effect.

Section: R304.5 Efficiency dwelling units

Rationale: HCD proposes to bring forward the above referenced existing California amendment from the 2013 California Residential Code into the 2016 California Residential Code without modification. The amendment clarifies and recognizes efficiency dwelling units and required minimum dimensions in the California Residential Code. There is no intended change in regulatory effect.

SECTION R307 TOILET, BATH AND SHOWER SPACES

Section: R307.1 Space required

Rationale: HCD proposes to bring forward the above referenced existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code without modification. The HCD amendment deletes reference to requirements of Section P2705.1 and adds "The California Plumbing Code" to provide the code user a correct reference. The IRC plumbing provisions are not adopted by HCD. There is no intended change in regulatory effect.

FIGURE: R307.1 MINIMUM FIXTURE CLEARANCES

Rationale: HCD proposes to continue non-adoption of the above referenced model code figure as it conflicts with California Plumbing Code requirements. A banner has been added in the Express Terms besides each non-adopted section stating; "Not Adopted in CA." Additionally, an obelisk has been added to the Matrix Adoption Table to identify the non-adopted section. This amendment has been brought forward from the 2013 CRC with no intended change in regulatory effect.

SECTION R308 GLAZING

Section: R308.5 Site-built windows

Rationale: HCD proposes to bring forward the above referenced existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code without modification. The HCD amendment strikes "International" and replaces it with "California" to provide the code user a correct reference, the California Building Code. This amendment has been brought forward from the 2013 CRC with no intended change in regulatory effect.

SECTION R309 GARAGES AND CARPORTS

Section: R309.4 Automatic garage door openers

Rationale: HCD proposes to bring forward the above referenced existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code without modification. The HCD amendment adds a reference to existing California law, regarding automatic garage door openers. There is no intended change in regulatory effect.

Section: R309.7 Extension garage door springs

Rationale: HCD proposes to bring forward the above referenced existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code without modification. The HCD amendment provides a reference to existing California amendments in the CBC, Section 1211, which are also relevant to the construction of one- and two-family dwellings and townhouses covered in the CRC. There is no intended change in regulatory effect.

Section: R309.8 Electric vehicle (EV) charging infrastructure

Rationale: HCD proposes to adopt the above referenced new California amendment into the 2016 California Residential Code. This amendment is a pointer to mandatory requirements for electric vehicle charging infrastructure in CALGreen. During the 2013 Code Adoption Cycle pointers to mandatory CALGreen requirements were proposed for inclusion into the code to enhance user convenience and familiarity. These pointers may also serve as potential locations for the complete CALGreen requirement in the event that HCD makes the decision in a future rulemaking to discontinue Part 11, CALGreen and incorporate its requirements into other parts of Title 24, the California Building Standards Code.

SECTION R310 EMERGENCY ESCAPE AND RESCUE OPENINGS

Section: R310.2.2 Window sill height

Rationale: HCD proposes to adopt the above referenced section from the 2015 International Residential Code into the 2016 California Residential Code with amendment. The amendment is an existing California amendment from Section 310.1 of the 2013 California Residential Code and is proposed to be relocated into this section. The existing California amendment clarifies that the bottom of emergency escape and rescue openings (not the window sill height) must be no higher than 44 inches measured from the floor to the bottom of the clear opening. The model code allows for the window sill height to be not more than 44 inches above the floor. Part of the 2012 model code language has been relocated to a new section. Section R310.2.2 of the 2015 IRC now contains the language regulating the height of emergency escape and rescue openings. There is no intended change in regulatory effect.

SECTION R312 GUARDS AND WINDOW FALL PROTECTION

Section: R312.1.2 Height

Rationale: HCD proposes to bring forward the above referenced existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code without modification. The HCD amendment is provided to maintain the same 42" guard height requirement as in the CBC. There is no intended change in regulatory effect.

SECTION R313 AUTOMATIC FIRE SPRINKLER SYSTEMS

- Sections:**
- R313.1 Townhouse automatic fire sprinkler systems**
 - R313.1.1 Design and installation**
 - R313.2 One- and two-family dwellings automatic fire systems**
 - R313.2.1 Design and installation**

Rationale: HCD proposes to not adopt the above referenced sections.

HCD is proposing to not adopt fire sprinkler requirements for 1- and 2-family dwellings and townhouses. Sections requiring fire sprinklers and fire sprinkler specifications were co-adopted by HCD and the Office of the State Fire Marshal (OSFM) during the 2009 Triennial Code Adoption Cycle. This created confusion with stakeholders regarding interpretation and enforcement. Residential fire sprinkler requirements and other amendments related to fire sprinklers, and their continued adoption and maintenance will be promulgated through the OSFM.

SECTION R315 CARBON MONOXIDE ALARMS

Section: R315.1 General

Rationale: HCD proposes to adopt the above referenced section from the 2015 International Residential Code into the 2016 California Residential Code without amendment.

Section: R315.1.1 Listings

Rationale: HCD proposes to adopt the above referenced section from the 2015 International Residential Code into the 2016 California Residential Code with amendment. HCD proposes to relocate an existing amendment from the 2013 CRC Section R315.2.6 (with editorial corrections), identifying the restrictions for sales, approval and listing by the Office of the State Fire Marshal. There is no intended change in regulatory effect from the 2013 CRC.

Section: R315.2 Where required

Rationale: HCD proposes to adopt the above referenced section from the 2015 International Residential Code into the 2016 California Residential Code with amendment. HCD proposes to relocate an existing amendment from the 2013 CRC Section R315.2.3 (with editorial corrections), referencing the statutory mandate which identifies the requirements for installation of carbon monoxide alarms in every existing dwelling unit with a fossil fuel burning heater or appliance, fireplace or an attached garage. There is no intended change in regulatory effect from the 2013 CRC.

Sections: R315.2.1 Existing buildings and new construction R315.2.2 Alterations, repairs and additions

Rationale: HCD proposes to adopt the above referenced sections from the 2015 International Residential Code into the 2016 California Residential Code without amendment. HCD proposes to relocate an existing amendment from the 2013 CRC Section R315.2.2 (with editorial corrections), clarifying the requirements for installation of carbon monoxide alarms in every existing dwelling undergoing alterations, repairs or additions, where the alteration repair or addition introduces a fuel burning heater, appliance, or fireplace into a dwelling, or an addition of an attached garage. This amendment is required to clarify that even where a dwelling was not required to have a carbon monoxide alarm prior to the alteration repair or addition, adding a fuel burning heater, appliance, fireplace, or attached garage triggers the requirement for carbon monoxide alarms. There is no intended change in regulatory effect from the 2013 CRC.

Section: R315.3 Location

Rationale: HCD proposes to adopt the above referenced section from the 2015 International Residential Code into the 2016 California Residential Code with amendment. HCD proposes to relocate text from an existing amendment from the 2013 CRC Section R315.1 identifying the requirement for carbon monoxide alarms to be installed in accordance with manufacturer's installation instructions. HCD also proposes to relocate an existing amendment from the 2013 CRC Section R315.1.4 identifying the locations required to be provided with carbon monoxide alarms. There is no intended change in regulatory effect from the 2013 CRC.

Section: R315.4 Combination alarms

Rationale: HCD proposes to adopt the above referenced section from the 2015 International Residential Code into the 2016 California Residential Code with amendment. HCD proposes to relocate text from an existing amendment from the 2013 CRC Section R315.1.5 identifying the requirement for carbon monoxide alarms combined with smoke alarms (combination alarms) to comply with the applicable standards and requirements for listing and approval by the Office of the State Fire Marshal. There is no intended change in regulatory effect from the 2013 CRC.

Section: R315.5 Power source

Rationale: HCD proposes to adopt the above referenced section from the 2015 International Residential Code into the 2016 California Residential Code with amendment. HCD proposes to relocate text from an existing amendment from the 2013 CRC Section R315.2.4 (with editorial corrections), identifying the different cases (exceptions) where the required carbon monoxide alarms may be solely battery powered, and not powered by the building wiring supplied by a commercial source such as an electrical utility company providing electrical service to the building. There is no intended change in regulatory effect from the 2013 CRC.

**Sections: R315.6 Carbon monoxide detection systems
R315.6.1 General**

Rationale: HCD proposes to adopt the above referenced section from the 2015 International Residential Code into the 2016 California Residential Code without amendment.

Section: R315.6.2 Location

Rationale: HCD proposes to adopt the above referenced section from the 2015 International Residential Code into the 2016 California Residential Code with amendment. HCD proposes to relocate text from an existing amendment from the 2013 CRC Section R315.2.1 (with editorial corrections). HCD amends the model code to specify that the carbon monoxide detectors shall be maintained in the locations specified in R315.3. Further, HCD believes that the location requirements in NFPA 720 are consistent with the locations specified in Section R315.3, therefore proposes to delete the model code language stating that the locations in R315.3 supercede the locations specified in NFPA 720. There is no intended change in regulatory effect from the 2013 CRC.

Section: R315.6.3 Permanent fixture

Rationale: HCD proposes to adopt the above referenced section from the 2015 International Residential Code into the 2016 California Residential Code without amendment.

Section: R315.6.4 Combination detectors

Rationale: HCD proposes to adopt the above referenced section from the 2015 International Residential Code into the 2016 California Residential Code with amendment. HCD proposes to relocate text from an existing amendment from the 2013 CRC Section R315.1.5 (with editorial corrections) identifying the requirements for combination detectors that detect both smoke and carbon monoxide to be listed and approved by the Office of the State Fire Marshal. There is no intended change in regulatory effect from the 2013 CRC.

Section: R315.7 Interconnection

Rationale: HCD proposes to adopt the above referenced section from the 2015 International Residential Code into the 2016 California Residential Code with amendment. HCD proposes to relocate text from an existing amendment in the 2013 CRC Section R315.2.5 (with editorial corrections), identifying the different cases where interconnection of carbon monoxide alarms is not required. There is no intended change in regulatory effect from the 2013 CRC.

SECTION R320 ACCESSIBILITY

Section: R320.1 Scope

Rationale: HCD proposes to bring forward the above new existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code without modification. This model code section references an IRC division, chapter, and/or section not proposed for adoption by HCD. Adoption of this section referencing IRC Chapter 11, conflicts with Chapter 11A in California Building Code adopted by HCD. The HCD amendment directs the code user to the applicable code requirements.

Section: R320.1.1 Guestrooms

Rationale: HCD proposes to delete and not adopt the above referenced section into the 2016 California Residential Code. HCD does not adopt accessibility standards from the International Residential Code.

SECTION R321 ELEVATORS AND PLATFORM LIFTS

Section: R321.3 Accessibility

Rationale: HCD proposes to bring forward the above referenced existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code with modification. The amendment deletes "International" and replaces it with "California" to provide the code user a correct reference, the California Building Code. The proposed amendment also directs the code user to applicable code requirements in CBC Chapter 11A. The modification to the existing California amendment changes the reference from Section 1124A to Chapter 11A. This modification is to make maintenance of this amendment easier should the section numbering in Chapter 11A change. There is no intended change in regulatory effect from the 2013 CRC.

SECTION R322 FLOOD-RESISTANT CONSTRUCTION

Section: R322.1.6 Protection of mechanical, plumbing and electrical systems

Rationale: HCD proposes to bring forward the above referenced existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code without modification. The amendment deletes reference to “electrical part of this code” and adds “California Electrical Code” to provide the code user a correct reference. There is no intended change in regulatory effect from the 2013 CRC.

Section: R322.1.7 Protection of water supply and sanitary sewage systems

Rationale: HCD proposes to bring forward the above referenced existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code without modification. This amendment provides clarity and consistency to the code user and enforcing agencies. There is no intended change in regulatory effect from the 2013 CRC.

Section: R322.1.9 Manufactured homes

Rationale: HCD proposes to not adopt the above referenced section. This model code section conflicts with existing state law applicable to manufactured housing.

SECTION: 324 SOLAR ENERGY SYSTEMS

Section: R324.2 Solar thermal systems

Rationale: HCD proposes to adopt the above referenced section from the 2015 International Residential Code into the 2016 California Residential Code with amendment. The proposed amendment replaces the model code reference to Chapter 23 to the California Plumbing Code and changes the reference from the International Fire Code to the California Fire Code. This amendment is necessary to provide the proper reference to the applicable code.

Section: R324.3 Photovoltaic systems

Rationale: HCD proposes to adopt the above referenced section from the 2015 International Residential Code into the 2016 California Residential Code with amendment. The proposed amendment changes the reference from NFPA 70 (National Electrical Code) to the California Electrical Code. This amendment is necessary to provide the proper reference to the applicable code.

Section: R324.6.1 Fire separation distances

Rationale: HCD proposes to adopt the above referenced section from the 2015 International Residential Code into the 2016 California Residential Code with amendment. The proposed amendment changes the term “local jurisdiction” to “enforcing agency.” This amendment is necessary to provide the code user with the proper term for the local authority.

Sections: R324.7 Access and pathways (Exception 2)

R324.7.2.5 Allowance for smoke ventilation operations

Rationale: HCD proposes to adopt the above referenced sections from the 2015 International Residential Code into the 2016 California Residential Code with amendments. The proposed amendments change the term “code official” to “building official.” This amendment is necessary to provide the code user with the proper term for the local code official used throughout other California codes.

Section: R326 Swimming Pools, Spas and Hot Tubs

Rationale: HCD proposes to not adopt the above referenced section. HCD does not have statutory authority to adopt design and construction standards for pools and spas.

SECTION R334 (formerly R324) CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING

Section: R334.1 (formerly R324.1) Construction waste management

Rationale: HCD proposes to bring forward the above referenced existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code with editorial renumbering and modification. The modification changes the requirements for recycling construction and demolition waste from 50 percent to 65 percent. This modification is necessary for consistency with the CALGreen Code. During the 2013 Code Adoption Cycle pointers to mandatory CALGreen requirements were proposed for inclusion into the code to enhance user convenience and familiarity. These pointers may also serve as potential locations for the complete CALGreen requirement in the event that HCD makes the decision in a future rulemaking to discontinue Part 11, CALGreen and incorporate its requirements into other parts of Title 24, the California Building Standards Code.

SECTION R340 (formerly R330) POLLUTANT CONTROL

Section: R340.1 (formerly R330.1) Finish material pollutant control

Rationale: HCD proposes to bring forward the above referenced existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code with editorial renumbering. During the 2013 Code Adoption Cycle pointers to mandatory CALGreen requirements were proposed for inclusion into the code to enhance user convenience and familiarity. There is no intended change in regulatory effect from the 2013 CRC.

7. CHAPTER 4 FOUNDATIONS

SECTION R401 GENERAL

Section: R401.2 Requirements

Rationale: HCD proposes to continue to adopt the above referenced model code section and bring forward existing California amendments from the 2013 California Residential Code for adoption into the 2016 California Residential Code without modification. The California amendment informs the code user to refer to Section R301.1.1.1 which addresses limited-density owner-built rural dwellings. There is no intended change in regulatory effect from the 2013 CRC.

Sections:	R401.4.1.1	General and where required for applications listed in Section 1.8.2.1.1 regulated by the Department of Housing and Community Development
	R401.4.1.1.1	Preliminary soil report
	R401.4.1.1.2	Soil investigation by lot, necessity, preparation, and recommendations
	R401.4.1.1.3	Approval, building permit conditions, appeal
	R401.4.1.1.4	Liability
	R401.4.1.1.5	Alternate procedures

Rationale: HCD proposes to bring forward the above referenced existing California amendments from the 2013 California Residential Code into the 2016 California Residential Code without modification. These California amendments are necessary to implement existing law found in Health and Safety Code (HSC) Sections 17953 through 17955 which require soils investigation for subdivisions and Sections 17956 and 17957 addressing liability and authority for local use of alternate procedures, respectively. The amendment also allows for the use of alternate procedures by local enforcing agencies. There is no intended change in regulatory effect from the 2013 CRC.

SECTION R403 FOOTINGS

Section: R403.1.8 Foundations on expansive soils

Rationale: HCD proposes to continue to adopt the above referenced model code section and bring forward existing California amendments from the 2013 California Residential Code for adoption into the 2016 California Residential Code without modification. The amendment deletes "International" and replaced with "California" to provide the code user a correct reference to the California Building Code. There is no intended change in regulatory effect from the 2013 CRC.

Section R404 FOUNDATION AND RETAINING WALLS

Section: R404.5.1 Design

Rationale: HCD proposes to continue to adopt the above referenced model code section and bring forward existing California amendments from the 2013 California Residential Code for adoption into the 2016 California Residential Code without modification. International Residential Code provisions for precast concrete do not include prescriptive design criteria; therefore, it requires design by a registered professional. There is no intended change in regulatory effect from the 2013 CRC.

SECTION R408 UNDER-FLOOR SPACE

Section: R408.3 Unvented crawl space

Rationale: HCD proposes to continue to adopt the above referenced model code section and bring forward existing California amendments from the 2013 California Residential Code for adoption into the 2016 California Residential Code with modification. The proposed modification repeals an existing amendment in Item 2.1 which requires crawl space perimeter walls to be insulated when unvented crawlspace is provided with mechanical ventilation. Crawl

space perimeter wall insulation is not required in the California Building Code for the same condition, and is not required in the California Energy Code, therefore HCD proposes to repeal this requirement for consistency. HCD is however continuing the adoption of the amendment, which requires crawl space perimeter walls to be insulated in Item 2.2, for consistency with the California Energy Code.

HCD also proposes to continue to delete references to International Residential Code sections not proposed for adoption and provide a correct reference to the California Mechanical Code.

Section: R408.4 Access

Rationale: HCD proposes to continue to adopt the above referenced model code section and bring forward existing California amendments from the 2013 California Residential Code for adoption into the 2016 California Residential Code without modification. This model code section references an International Residential Code division, chapter, and/or sections not proposed for adoption by HCD. The amendment provides a correct reference to the California Mechanical Code. There is no intended change in regulatory effect from the 2013 CRC.

**8. CHAPTER 5
FLOORS**

SECTION R502 WOOD FLOOR FRAMING

Section: R502.1.1 Sawn lumber

Rationale: HCD proposes to continue to adopt the above referenced model code section and bring forward existing California amendments from the 2013 California Residential Code for adoption into the 2016 California Residential Code without modification. The California amendment adds a reference to limited-density owner-built rural dwellings. Pointers have been placed within the California Residential Code directing code users to applicable code provisions in Section R301.1.1.1. This amendment was formerly to Section R502.1 which was split in to two Sections R502.1 and R502.1.1. There is no intended change in regulatory effect from the 2013 CRC.

Section: R502.11.1 Design

Rationale: HCD proposes to continue to adopt the above referenced model code section and bring forward existing California amendments from the 2013 California Residential Code for adoption into the 2016 California Residential Code without modification. This model code section references an IRC division, chapter, and/or section not proposed for adoption by HCD. The amendment deletes reference to Section R106.1 which is not proposed for adoption by HCD and contains administrative provisions a local enforcing agency may choose to legally adopt by ordinance, resolution or charter to conduct enforcement activities. In addition, wood trusses do not have prescriptive design criteria, therefore, design by a registered professional is required. There is no intended change in regulatory effect from the 2013 CRC.

SECTION R506 CONCRETE FLOORS (ON GROUND)

Section: R506.2.3.1 Capillary break

Rationale: HCD proposes to bring forward the above referenced existing California amendment from the 2013 California Residential Code into the 2016 California Residential Code without modification. This amendment is a pointer to mandatory CALGreen requirements.

**9. CHAPTER 6
WALL CONSTRUCTION**

SECTION R602 WOOD WALL FRAMING

Section: R602.1.1 Sawn lumber

Rationale: HCD proposes to continue to adopt the above referenced model code section and bring forward existing California amendments from the 2013 California Residential Code for adoption into the 2016 California Residential Code without modification. The California amendment adds a reference to limited-density owner-built rural dwellings. This amendment was formerly to Section R602.1 which was split in to two sections R602.1 and R602.1.1. There is no intended change in regulatory effect from the 2013 CRC.

Section: R602.3.4.1 Rodent proofing

Rationale: HCD proposes to bring forward the above referenced existing California amendment from the 2013 California Residential Code into the 2016 California Residential Code without modification. This amendment is a pointer to mandatory CALGreen requirements. There is no intended change in regulatory effect from the 2013 CRC.

Section: R602.3.4.2 Reinforcement for bathrooms

Rationale: HCD proposes to adopt the above referenced section as a new California amendment. This proposed amendment is intended to reference new requirements currently proposed by HCD in the 2016 CALGreen Code. References to mandatory CALGreen requirements were adopted into this code during the 2012 Triennial Code Adoption Cycle to enhance user convenience and familiarity.

Table: R602.10.3(3) BRACING REQUIREMENTS BASED ON SEISMIC DESIGN CATEGORY

Rationale: HCD proposes to continue to adopt the above referenced model code Table and bring forward existing California amendment from the 2013 California Residential Code for adoption into the 2016 California Residential Code without modification. Footnote “b” of this model code table references the IBC. The amendment strikes “International” and replaces it with “California” to provide the code user a correct reference, the California Building Code. There is no intended change in regulatory effect from the 2013 CRC.

SECTION 606 GENERAL MASONRY CONSTRUCTION

Section: R606.1.1 Professional registration

Rationale: HCD proposes to continue to adopt the above referenced model code section and bring forward existing California amendment from the 2013 California Residential Code for adoption into the 2016 California Residential Code without modification. This amendment provides the code user with necessary information about additional California requirements and also directs the code user to the applicable law located in the Business and Professions Code. There is no intended change in regulatory effect from the 2013 CRC.

Table: R606.12.2.1 MINIMUM SOLID WALL LENGTH ALONG EXTERIOR WALL LINES

Rationale: HCD proposes to continue to adopt the above referenced model code table and bring forward existing California amendment from the 2013 California Residential Code for adoption into the 2016 California Residential Code without modification. The amendment deletes “International” and replaces it with “California” to provide the code user a correct reference, the California Building Code. There is no intended change in regulatory effect from the 2013 CRC.

SECTION R608 EXTERIOR CONCRETE WALL CONSTRUCTION

Section: R608.1 (formerly 611.1) General

Rationale: HCD proposes to continue to adopt the above referenced model code section and bring forward existing California amendments from the 2013 California Residential Code for adoption into the 2016 California Residential Code without modification. The amendment provides the code user with necessary information about additional California requirements and also directs the code user to the applicable law located in the Business and Professions Code. There is no intended change in regulatory effect from the 2013 CRC.

SECTION R610 STRUCTURAL INSULATED PANEL WALL CONSTRUCTION

Section: R610.1 (formerly 613.1) General

Rationale: HCD proposes to continue to adopt the above referenced model code section and bring forward existing California amendments from the 2013 California Residential Code for adoption into the 2016 California Residential Code without modification. The amendment provides the code user with necessary information about additional California requirements and also directs the code user to the applicable law located in the Business and Professions Code. There is no intended change in regulatory effect from the 2013 CRC.

Section: R610.4.1 Labeling

Rationale: HCD proposes to adopt the above referenced section from the 2015 International Residential Code into the 2016 California Residential Code with amendment. The amendment adds a note referencing California statutory and regulatory requirements for factory built components. The Health and Safety Code, Factory-Built Housing Law, requires that all “factory-built housing,” which includes building components, bear insignia of approval issued by HCD through an HCD-approved third-party agency. As referenced in this section, SIPS are considered factory-built building components, assemblies, or systems manufactured in such a manner that all concealed parts or processes of manufacture cannot be inspected before installation at the building site without disassembly, damage, or

destruction of the part. This amendment provides guidance and clarification for labelling and insignia requirement for SIP products installed in California. There is no intended change in regulatory effect.

**10. CHAPTER 7
WALL COVERING**

SECTION R702 INTERIOR COVERING

Sections: R702.7 Vapor retarders
R702.7.1 Class III vapor retarders

Table: R702.7.1 CLASS III VAPOR RETARDERS

Rationale: HCD proposes to continue to adopt the above referenced model code sections and bring forward existing California amendments from the 2013 California Residential Code for adoption into the 2016 California Residential Code with modification. The modification deletes the reference to Title 24, Part 6 for consistency with other California codes. HCD proposes to continue to delete Table R702.7.1. The amendments reflect California requirements for vapor retarders and California Climate Zones as used in the California Energy Code (CEC) and will prevent confusion by code users. The original California amendments were proposed by HCD in consultation with the California Energy Commission to ensure the amendments were not in conflict with or become more restrictive than the CEC requirements. There is no intended change in regulatory effect from the 2013 CRC.

SECTION R703 EXTERIOR COVERING

Section: R703.1.1 Water resistance

Rationale: HCD proposes to continue to adopt the above referenced model code section and bring forward existing California amendments from the 2013 California Residential Code for adoption into the 2016 California Residential Code without modification. The amendment strikes reference to an IRC section and replaces it with a correct reference to the California Energy Code. There is no intended change in regulatory effect from the 2013 CRC.

**11. CHAPTER 8
ROOR-CEILING CONSTRUCTION**

SECTION R802 WOOD ROOF FRAMING

Section: R802.1.1 (formerly R802.1) Sawn-lumber (formerly Identification)

Rationale: HCD proposes to continue to adopt the above referenced model code section and bring forward existing California amendments from the 2013 California Residential Code for adoption into the 2016 California Residential Code without modification. A pointer has been placed within this section directing code users to applicable code provisions in Section R301.1.1.1 addressing limited-density owner-built rural dwellings. This amendment was formerly located in Section R802.1 Identification, which the model code has now split into two sections - R802.1 and R802.1.1 and addresses the same requirement for lumber to be identified by a grade mark. There is no intended change in regulatory effect from the 2013 CRC.

Section: R802.1.5.4 (formerly R802.1.3.4) Labeling

Rationale: HCD proposes to continue to adopt the above referenced model code section and bring forward existing California amendments from the 2013 California Residential Code for adoption into the 2016 California Residential Code without modification. The amendment deletes "International" and replaces it with "California" to provide the code user a correct reference, the California Building Code. There is no intended change in regulatory effect from the 2013 CRC.

Section: R802.10.2 Design

Rationale: HCD proposes to continue to adopt the above referenced model code section and bring forward existing California amendments from the 2013 California Residential Code for adoption into the 2016 California Residential Code without modification. There is no intended change in regulatory effect from the 2013 CRC.

SECTION R806 ROOF VENTILATION

Section: R806.2 Minimum vent area

Rationale: HCD proposes to continue to adopt the above referenced model code section and bring forward existing California amendments from the 2013 California Residential Code for adoption into the 2016 California Residential Code without modification. The model code section references International Energy Conservation Code (IECC) Climate Zones not proposed for adoption by HCD. California has its own energy standards, including climate zone specific references for vapor retarders, which already include 16 defined climate zones. There is no intended change in regulatory effect from the 2013 CRC.

Section: R806.5 Unvented attic and unvented enclosed rafter assemblies

Table: R806.5 INSULATION FOR CONDENSATION CONTROL (not adopted by HCD)

Rationale: HCD proposes to adopt the above referenced section from the 2015 IRC into the 2016 CRC with new amendments and bring forward existing California amendments with editorial modifications from the 2013 CRC into the 2016 CRC. The proposed amendments would allow for high-performance unvented attics to be constructed. This proposal is consistent with the proposed 2016 California Energy Code developed by the California Energy Commission (CEC) for the 2016 California Energy Code. An unvented attic with air-permeable insulation installed directly below the roof sheathing is one of the options to build high-performance attics. High-performance attics can significantly reduce peak electrical loads caused by high summertime attic temperatures where air conditioning ductwork is located within the attic space. For high performance attics utilizing air permeable insulation installed directly below the structural roof sheathing, the CEC references Building Science Corporation's Hygrothermal Analysis (page 34)¹, manufacturer and national laboratory field and simulations studies², and 2016 High Performance Attic CASE report by TRC³ which collectively indicate that there are no apparent condensation concerns for high-performance unvented attics in all California Climate Zones except Climate Zone 16. A Class I or Class II vapor retarder should be applied in Climate Zone 16. Unvented high-performance attics in California Climate Zones 1, 14, and 16 which have colder temperatures and/or higher relative humidity levels or temperature differentials require additional protection against condensation by the installation of air-impermeable insulation directly above or below the structural roof sheathing, or the installation of a vapor retarder on the indirectly conditioned side of the air-permeable insulation.

HCD proposes to amend the model code Section R806.5(4) to add Climate Zone 1 based upon recommendation from the Energy Commission Staff, and require a Class I or Class II vapor retarder for this application to aid in condensation control.

HCD also proposes in Section R806.5(5)(5.1.2) for Climate Zones 1, 14 and 16 to clarify the location of the air-permeable insulation and air-impermeable insulation, and provide an alternative to installing air-impermeable and air-impermeable insulation for all other Climate Zones. Additionally the text "Title 24, Part 6" has been deleted and references the California Energy Code. This modification is necessary for consistency with proposed changes in other California codes during this rulemaking. These amendments are necessary to allow unvented high-performance attics without air-impermeable insulation for Climate Zones other than 1, 14 and 16. Lastly HCD proposes to delete unnecessary model code language from Section R806.5(5)(5.1.3).

¹ www.buildingscience.com/documents/reports/rr-1110-hygrothermal-analysis-california-attics

² Owens Corning Building Science Group and Oak Ridge National Laboratory; High Performance Unvented Attics with Fiberglass Insulation; CBIA/CEC 2016 Forum, April 4, 2014; http://www.energy.ca.gov/title24/2016standards/prerulemaking/documents/2014-04-04_forum/presentations/High_Performance_Attics/Owens_Corning_ORNL_KB_Homes_Collaborative_Study_Unvented_Attics_Building.pdf

³ http://www.energy.ca.gov/title24/2016standards/prerulemaking/documents/2014-07-21_workshop/case_reports/2016_Title_24_Draft_CASE_Report-Residential_Ducts_in_Conditioned_Space-High_Performance_Attics.pdf

SECTION R807 ATTIC ACCESS

Section: R807.1 Attic access

Rationale: HCD proposes to continue to adopt the above referenced model code section and bring forward existing California amendment from the 2013 California Residential Code for adoption into the 2016 California Residential Code without modification. This model code section references an IRC section not proposed for adoption by HCD. The amendment deletes reference to Section M1305.1.3 and replaces it with a correct reference, the California Mechanical Code. There is no intended change in regulatory effect from the 2013 CRC.

12. **CHAPTER 9
ROOF ASSEMBLIES**

SECTION R903 WEATHER PROTECTION

Section: R903.4.1 Secondary (emergency overflow) drains or scuppers

Rationale: HCD proposes to continue to adopt the above referenced model code section and bring forward existing California amendment from the 2013 California Residential Code for adoption into the 2016 California Residential Code without modification. The amendment deletes “Sections 1106 and 1108” and “International” and adds “California” to provide the code user a correct reference. The second paragraph specifying overflow drain connection requirements has been omitted because it conflicts with storm water drainage provisions of the California Plumbing Code. There is no intended change in regulatory effect from the 2013 CRC.

SECTION R905 REQUIREMENTS FOR ROOF COVERINGS

Section: R905.10.3 Material standards

Rationale: HCD proposes to continue to adopt the above referenced model code section and bring forward existing California amendments from the 2013 California Residential Code for adoption into the 2016 California Residential Code without modification. The existing amendment deletes “International” and adds “California” to provide the code user a correct reference, the California Building Code. There is no intended change in regulatory effect from the 2013 CRC.

Section: R905.16 Photovoltaic shingles

Rationale: HCD proposes to adopt the above referenced section from the 2015 International Residential Code into the 2016 California Residential Code with amendment. The HCD amendment corrects the reference to NFPA 70 to the California Electrical Code as the applicable standard for electrical installations. There is no intended change in regulatory effect from the 2013 CRC.

SECTION R907 ROOFTOP-MOUNTED PHOTOVOLTAIC SYSTEMS

Section: R907.1 Rooftop-mounted photovoltaic systems

Rationale: HCD proposes to adopt the above referenced section from the 2015 International Residential Code into the 2016 California Residential Code with amendment. The HCD amendment corrects the reference to NFPA 70 to the California Electrical Code as the applicable standard for electrical installations.

SECTION R909 ROOFTOP-MOUNTED PHOTOVOLTAIC PANEL SYSTEMS

Section: R909.1 General

Rationale: HCD proposes to adopt the above referenced section from the 2015 International Residential Code into the 2016 California Residential Code with amendment. The HCD amendment corrects the reference to NFPA 70 to the California Electrical Code as the applicable standard for electrical installations.

13. **CHAPTER 10
CHIMNEYS AND FIREPLACES**

SECTION R1001 MASONRY FIREPLACES

Section: R1001.3 Seismic reinforcing

Section: R1001.4 Seismic anchorage

Table R1001.1 SUMMARY OF REQUIREMENTS FOR MASONRY FIREPLACES AND CHIMNEYS

Rationale: HCD proposes to continue to adopt the above referenced model code section and table and bring forward existing California amendments from the 2013 California Residential Code for adoption into the 2016 California Residential Code without modification. The California amendments aligned the 2010 CRC with changes in the 2009 IBC Chapter 21 requiring masonry fireplaces and masonry chimneys in Seismic Design Category “C” to meet seismic reinforcing and anchorage requirements. HCD determined that these IBC provisions should also apply to one-and two-family dwellings under the IRC masonry chimney and masonry fireplace requirements. There is no intended change in regulatory effect from the 2013 CRC.

CHAPTER 18	CHIMNEYS AND VENTS
CHAPTER 19	SPECIAL APPLIANCES, EQUIPMENT AND SYSTEMS
CHAPTER 20	BOILERS AND WATER HEATERS
CHAPTER 21	HYDRONIC PIPING
CHAPTER 22	SPECIAL PIPING AND STORAGE SYSTEMS
CHAPTER 23	SOLAR THERMAL ENERGY SYSTEMS

HCD proposes to not adopt the 2015 International Residential Code, Part V Mechanical, Chapters 12 through 23.

16. Part VI—Fuel Gas

CHAPTER 24	FUEL GAS
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HCD proposes to not adopt the 2015 International Residential Code, Part VI Fuel Gas, Chapter 24.

17. Part VII—Plumbing

CHAPTER 25	PLUMBING ADMINISTRATION
CHAPTER 26	GENERAL PLUMBING REQUIREMENTS
CHAPTER 27	PLUMBING FIXTURES
CHAPTER 28	WATER HEATERS
CHAPTER 29	WATER SUPPLY AND DISTRIBUTION
CHAPTER 30	SANITARY DRAINAGE
CHAPTER 31	VENTS
CHAPTER 32	TRAPS
CHAPTER 33	STORM DRAINAGE

HCD proposes to not adopt the 2015 International Residential Code, Part VII, Plumbing, Chapters 25 through 33.

18. Part VIII—Electrical

CHAPTER 34	GENERAL REQUIREMENTS
CHAPTER 35	ELECTRICAL DEFINITIONS
CHAPTER 36	SERVICES
CHAPTER 37	BRANCH CIRCUIT AND FEEDER REQUIREMENTS
CHAPTER 38	WIRING METHODS
CHAPTER 39	POWER AND LIGHTING DISTRIBUTION
CHAPTER 40	DEVICES AND LUMINAIRES
CHAPTER 41	APPLIANCE INSTALLATION
CHAPTER 42	SWIMMING POOLS
CHAPTER 43	CLASS 2 REMOTE-CONTROL, SIGNALING AND POWER-LIMITED CIRCUITS

HCD proposes to not adopt the 2015 International Residential Code, Part VIII, Electrical, Chapters 34 through 43.

19. Part IX—Referenced Standards

CHAPTER 44	REFERENCED STANDARDS
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Rationale: HCD proposes to adopt the 2015 International Residential Code, Chapter 44 Reference Standards, into the 2016 California Residential Code with amendment as follows:

HCD proposes amendments to International Code Council listings, which are no longer referenced in the California Residential Code sections noted. The proposed amendments provide the code user additional clarity and consistency for application and enforcement. There is no change in regulatory effect.

20. APPENDIX A SIZING AND CAPACITIES OF GAS PIPING

HCD proposes to not adopt Appendix A of the 2015 International Residential Code.

21. APPENDIX B SIZING OF VENTING SYSTEMS SERVING APPLIANCES EQUIPPED WITH DRAFT HOODS, CATEGORY I APPLIANCES, AND APPLIANCES LISTED FOR USE WITH TYPE B VENTS

HCD proposes to not adopt Appendix B of the 2015 International Residential Code.

22. APPENDIX C EXIT TERMINALS OF MECHANICAL DRAFT AND DIRECT-VENT VENTING SYSTEMS

HCD proposes to not adopt Appendix C of the 2015 International Residential Code.

23. APPENDIX D RECOMMENDED PROCEDURE FOR SAFETY INSPECTION OF AN EXISTING APPLIANCE INSTALLATION

HCD proposes to not adopt Appendix D of the 2015 International Residential Code.

24. APPENDIX E MANUFACTURED HOUSING USED AS DWELLINGS

HCD proposes to not adopt Appendix E of the 2015 International Residential Code.

25. APPENDIX F PASSIVE RADON GAS CONTROLS

HCD proposes to not adopt Appendix F of the 2015 International Residential Code.

26. APPENDIX G PIPING STANDARDS FOR VARIOUS APPLICATIONS

HCD proposes to not adopt Appendix G of the 2015 International Residential Code.

27. APPENDIX H PATIO COVERS

Rationale: HCD proposes to adopt Appendix H of the 2015 International Residential Code into the 2016 California Residential Code without amendment. There is no intended change in regulatory effect.

28. APPENDIX I PRIVATE SEWAGE DISPOSAL

HCD proposes to not adopt Appendix I of the 2015 International Residential Code.

29. APPENDIX J EXISTING BUILDINGS AND STRUCTURES

HCD proposes to not adopt Appendix J of the 2015 International Residential Code.

30. APPENDIX K SOUND TRANSMISSION

HCD proposes to not adopt Appendix K of the 2015 International Residential Code. However, HCD proposes to bring forward the existing California amendment, which references the California Building Code for mandatory sound transmission requirements which are applicable to structures built to the California Residential Code.

31. APPENDIX L PERMIT FEES

HCD proposes to not adopt Appendix L of the 2015 International Residential Code.

32. APPENDIX M HOME DAY CARE—R-3 OCCUPANCY

HCD proposes to not adopt Appendix M of the 2015 International Residential Code.

33. APPENDIX N VENTING METHODS

HCD proposes to not adopt Appendix N of the 2015 International Residential Code.

34. APPENDIX O AUTOMATIC VEHICULAR GATES

HCD proposes to not adopt Appendix O of the 2015 International Residential Code.

35. APPENDIX P SIZING OF WATER PIPING SYSTEM

HCD proposes to not adopt Appendix P of the 2015 International Residential Code.

36. APPENDIX Q RESERVED

HCD proposes to not adopt Appendix Q of the 2015 International Residential Code.

37. APPENDIX R LIGHT STRAW-CLAY CONSTRUCTION

HCD proposes to not adopt Appendix R of the 2015 International Residential Code.

38. APPENDIX S STRAWBALE CONSTRUCTION

HCD proposes to adopt Appendix S from the 2015 International Residential Code into the 2016 California Residential code with amendments. The California State Legislature originally approved Strawbale Construction Guidelines as California law in Section 18944.30 et seq. of the Health and Safety Code in 1995. The statutory language specifically stated that it was the intent of the Legislature that these statutory guidelines were to serve as an interim measure pending the evaluation of straw bales as a construction material; determination of construction standards; and the adoption of material and construction standards into the California Building Standards Code. The model code language in Appendix S addresses the same prescriptive requirements found in the statutory guidelines, and in some cases provides more specificity. The model code provides requirements for wall thickness; structural considerations including: live loads, dead loads, compressive strength, attachment to foundations, resistance to wind and uplift forces, seismic design, and fire resistance, and references ASTM Standards.

SECTION AS102 DEFINITIONS

Section: AS102.1 Definitions

Rationale: HCD proposes to adopt the above referenced section with a California amendment which changes the term “International” to “California” for clarity and consistency.

SECTION AS104 FINISHES

Section: AS104.2 Purpose, and where required

Rationale: HCD proposes to adopt the above referenced section with a California amendment which changes the referenced International Climate Zones to the corresponding California Climate Zones.

SECTION AS105 STRAWBALE WALLS—GENERAL

Section: AS105.6.2 Vapor retarders

Rationale: HCD proposes to adopt the above referenced section with a California amendment which changes the referenced International Climate Zones to the corresponding California Climate Zones as referenced in the California Energy Code.

Section: AS105.6.3 Penetrations in exterior strawbale walls

Rationale: HCD proposes to adopt the above referenced section with a California amendment which changes the referenced International Climate Zones to the corresponding California Climate Zones as referenced in the California Energy Code.

SECTION AS106 STRAWBALE WALLS—STRUCTURAL

Section: AS106.2 Loads and other limitations

Section: AS106.13 Braced panels

TABLE: AS106.13(1) PLASTERED STRAWBALE BRACED WALL PANEL TYPES

Rationale: HCD proposes to adopt the above referenced section with a California amendment which changes the term International to California for clarity and consistency.

39. APPENDIX T RECOMMENDED PROCEDURE FOR WORST-CASE TESTING OF ATMOSPHERIC VENTING SYSTEMS UNDER N1102.4 OR N1105 CONDITIONS $\leq 5ACH_{50}$

HCD proposes to not adopt Appendix T of the 2015 International Residential Code.

40. APPENDIX U SOLAR-READY PROVISIONS—DETACHED ONE- AND TWO-FAMILY DWELLINGS, MULTIPLE SINGLE-FAMILY DWELLINGS (TOWNHOUSES)

HCD proposes to not adopt Appendix U of the 2015 International Residential Code.

TECHNICAL, THEORETICAL, AND EMPIRICAL STUDY, REPORT, OR SIMILAR DOCUMENTS:

(Government Code Section 11346.2(b)(3) requires an identification of each technical, theoretical, and empirical study, report, or similar document, if any, upon which the agency relies in proposing the regulation(s).)

None.

STATEMENT OF JUSTIFICATION FOR PRESCRIPTIVE STANDARDS:

(Government Code Section 11346.2(b)(1) requires a statement of the reasons why an agency believes any mandates for specific technologies or equipment or prescriptive standards are required.)

HCD is statutorily required to adopt by reference model building codes, which contain prescriptive standards. Prescriptive standards provide the following: explicit guidance for certain mandated requirements; consistent application and enforcement of building standards while also establishing clear design parameters; and ensure compliance with minimum health, safety and welfare standards for owners, occupants and guests.

Performance standards are permitted by state law; however, they must be demonstrated to the satisfaction of the proper enforcing agency.

CONSIDERATION OF REASONABLE ALTERNATIVES

(Government Code Section 11346.2(b)(4)(A) requires a description of reasonable alternatives to the regulation and the agency's reasons for rejecting those alternatives. In the case of a regulation that would mandate the use of specific technologies or equipment or prescribe specific action or procedures, the imposition of performance standards shall be considered as an alternate. It is not the intent of this paragraph to require the agency to artificially construct alternatives or describe unreasonable alternatives.)

None. There were no alternatives available to HCD. HCD is required by statute to adopt the model code by reference. The proposed amendments are the only reasonable alternative for updating and clarifying the 2016 CRC.

REASONABLE ALTERNATIVES THE AGENCY HAS IDENTIFIED THAT WOULD LESSEN ANY ADVERSE IMPACT ON SMALL BUSINESS.

(Government Code Section 11346.2(b)(4)(B) requires a description of any reasonable alternatives that have been identified or that have otherwise been identified and brought to the attention of the agency that would lessen any adverse impact on small business.)

None. There were no alternatives available to HCD. HCD is required by statute to adopt the model code by reference. The proposed amendments have no negative impact on small business.

FACTS, EVIDENCE, DOCUMENTS, TESTIMONY, OR OTHER EVIDENCE OF NO SIGNIFICANT ADVERSE IMPACT ON BUSINESS.

(Government Code Section 11346.2(b)(5)(A) requires the facts, evidence, documents, testimony, or other evidence on which the agency relies to support an initial determination that the action will not have a significant adverse economic impact on business.)

HCD has determined that this regulatory action would have no significant adverse economic impact on California business enterprises and individuals, including the ability of California businesses to compete with businesses in other states.

ASSESSMENT OF EFFECT OF REGULATIONS UPON JOBS AND BUSINESS EXPANSION, ELIMINATION OR CREATION.

(Government Code Sections 11346.3(b)(1) and 11346.5(a)(10)).

HCD has assessed whether or not and to what extent this proposal will affect the following:

- The creation or elimination of jobs within the State of California.

These regulations will not affect the creation, or cause the elimination, of jobs within the State of California.

- The creation of new businesses or the elimination of existing businesses within the State of California.

These regulations will not affect the creation or the elimination of existing business within the State of California.

- The expansion of businesses currently doing business with the State of California.

These regulations will not affect the expansion of businesses currently doing business within the State of California.

- The benefits of the regulations to the health and welfare of California residents, worker safety, and the state's environment.

These regulations will update and improve minimum existing building standards, which will provide increased protection of public health and safety, worker safety and the environment.

ESTIMATED COST OF COMPLIANCE, ESTIMATED POTENTIAL BENEFITS, AND RELATED ASSUMPTIONS USED FOR BUILDING STANDARDS

(Government Code Section 11346.2(b)(6)(B)(i) states if a proposed regulation is a building standard, the initial statement of reasons shall include the estimated cost of compliance, the estimated potential benefits, and the related assumptions used to determine the estimates.)

- No increased cost of compliance for those regulations that make only technical and nonsubstantive changes.
- The potential benefits provide recognition and appropriate use of new technologies and materials, clarity for the code users and local enforcement agencies, and may increase business due to the adoption of new building standards.
- Protection of public health and safety, worker safety and the environment.

DUPLICATION OR CONFLICTS WITH FEDERAL REGULATIONS

(Government Code Section 11346.2(b)(6) requires a department, board, or commission within the Environmental Protection Agency, the Resources Agency, or the Office of the State Fire Marshal to describe its efforts, in connection with a proposed rulemaking action, to avoid unnecessary duplication or conflicts with federal regulations contained in the Code of Federal Regulations addressing the same issues. These agencies may adopt regulations different from these federal regulations upon a finding of one or more of the following justifications: (A) The differing state regulations are authorized by law and/or (B) The cost of differing state regulations is justified by the benefit to human health, public safety, public welfare, or the environment.)

These regulations do not duplicate nor conflict with federal regulations.